



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040406	TWM001-VU	1	1	Net 30	M304TR0.500W.049	304 Round Tube .500 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				100	7/17/2018	100		S092699	Stock	7/12/2018	\$ 2.80 / ft	5		\$279.98	TW Metals
		2			M304TR0.750W.049	304 Round Tube .750 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				140		140		S092700	Stock	7/12/2018	\$ 2.58 / ft	5		\$361.06	TW Metals
		3			M4130NT0.750W.049	4130 Round Tube .750 X .049W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft				40		40		S092701	Stock	7/12/2018	\$ 6.00 / ft	5		\$240.00	TW Metals
		4			M6061T6T0.3125W.058	Aluminum Tube .3125 X .058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				120		120		S092702	Stock	7/12/2018	\$ 3.08 / ft	5		\$369.47	TW Metals
		5			M6061T6T0.375W.058	6061-T6 Round Tube .375 X .058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft						120		S092703	Stock	7/12/2018	\$ 2.64 / ft	5		\$316.85	TW Metals

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		6			M6061T6T0.750W.058	6061-T6 Round Tube .750 X .058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				48		48		S092704	Stock	7/12/2018	\$ 3.00 / ft	5		\$143.93	TW Metals
		7			M6061T6TS1.000W.065	6061T6 Sq Tube 1.00 X 1.00 X 0.065W Rounded Corners : MATERIAL: 6061-T6 OR 6061-T651/T6510/T6511/T62 SQUARE TUBING AS PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR PER AMS-QQ-A- 200/8 OR AMS 4160 receive ft				36		36		S092705	Stock	7/12/2018	\$ 9.80 / ft	5		\$352.80	TW Metals
		8			M6061T6T1.000W.035	6061-T6 Round Tube 1" X .035" Wall : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				12		12		S092706	Stock	7/12/2018	\$ 5.36 / ft	5		\$64.27	TW Metals
		9			M6061T6T0.750W.125	6061-T6 Round Tube .750 X .125W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft						12		S092707	Stock	7/12/2018	\$ 9.20 / ft	5		\$110.40	TW Metals

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		10			M6061T6T0.625W.095	6061-T6 Round Tube .625 X.065W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				24		24		S092708	Stock	7/12/2018	\$ 3.15 / ft	5		\$75.60	TW Metals
											Total:	652									\$2,314.35

Plex 7/17/2018 11:25 AM dart.Tollis.Andrew



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60660313

FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT: 107.903 REQ.DATE: 07/17/18 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 07/10/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO040406 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
0001 36506 SMLS CD 304/L A269 1/2 OD X .049 WA 20' ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	100.000 FT	100.000 FT	100.000 FT	23.592	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
PO:49380769 HT:N171009AS12A1 PC: 5 CUSTOMER QTY: UOM
MLT:CHINA MFG:CHINA SLB/CL:180419769-10

0002 36860 SMLS CD 304/L A269 3/4 OD X .049 WA 20' CL

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	140.000 FT	140.000 FT	140.000 FT	51.341	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
PO:49370267 HT:N170711AS10A1 PC: 7 CUSTOMER QTY: UOM
MLT:CHINA MFG:CHINA SLB/CL:17MTC-101704

0003 33047 CDS 4130 6736 3/4 X .049 17/24 FT

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	40.000 FT	37.000 FT	37.000 FT	13.569	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00
PO:49386235 HT:24211A1 PC: 2 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:162122

1

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60660313

FROM: CRAN

PAGE 2

CUST NUMBER: 1203820 NET WGT: 107.903 REQ.DATE: 07/17/18 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 07/10/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO040406 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
0004 41723 D6061-T6 5/16 OD X .058 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	120.000 FT	120.000 FT	120.000 FT	6.552	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49380591 HT:2927553 PC: 10 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:475790

0005 41952 D6061-T6 3/8 OD X .058 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	120.000 FT	120.000 FT	120.000 FT	8.136	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49389319 HT:F002702540001 PC: 10 CUSTOMER QTY: UOM
MLT: MFG:UNITED STATES SLB/CL:226113

0006 43160 D6061-T6 1 OD X .035 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	12.000 FT	12.000 FT	12.000 FT	1.499	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49383924 HT:F002630750001 PC: 1 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:225274

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
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O'Neal High-Performance Metals Group



**Packing
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ORDER NO.: 60660313 FROM: CRAN PAGE 3

CUST NUMBER: 1203820 NET WGT: 107.903 REQ.DATE: 07/17/18 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 07/10/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO040406 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
0007 42558 D6061-T6 5/8 OD X .065 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	24.000 FT	24.000 FT	24.000 FT	3.214	

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49386278 HT:F002660490001 PC: 2 CUSTOMER QTY:
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:225635 UOM

BROKERS KUEHNE AND NAGEL LTD

AREA		TYPE OF PKG		PACK INFO				
NEW PEN	REDDICRATE	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT		
Orders In Package - 1		1.000	167.903	4.0000	246.0000	5		
		Box No -	TWPK18024228		CUBIC FT	2.8472		
		1.000	167.903					

BY: Tom Weaver
RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED _____

1

DATE FILLED _____

THANK YOU FOR THIS ORDER

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PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
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O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60660313

FROM: CRAN

PAGE 4

CUST NUMBER: 1203820	NET WGT: 107.903	REQ.DATE: 07/17/18	CONFIRMED
SOLD TO:	SHIP TO:		
DART AEROSPACE LTD	DART AEROSPACE LTD		
1270 ABERDEEN ST	1270 ABERDEEN ST		
HAWKESBURY ON	HAWKESBURY ON		
CANADA	CN K6A 1K7	ONTARIO CANADA	CN K6A 1K7

SALESPERSON: DONNA SMALLEY	SHIP BY: 07/10/18
TERMS: NET 30 DAYS	27 ENGLEHARD DRIVE
F.O.B.: SHIPPING POINT	MONROE TWP NJ 08831
CUST ORD NO.: PO040406	
VIA: COMMON CARRIER	
FREIGHT: PREPAID	
RELEASE NO.:	
RECEIVING PHONE:	

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 7/09/18

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
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O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 80944829

FROM: CHIC

PAGE 1

CUST NUMBER: 1203820 NET WGT: 20.393 REQ.DATE: 07/17/18 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 07/10/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO040406 RELEASE NO.:
RECEIVING PHONE:

LINE	ITEM	DESCRIPTION	WIDTH	LENGTH
0001	42807	D6061-T6 3/4 OD X .058 WA		12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	48.000 FT	48.000 FT	48.000 FT	7.102	4

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49388916 HT: F002698350001 PC: 4 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:226020

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
0002	45936	D6061-T6 SQ-RC R.156 1 SQ X .065 WA		12 FT ML	

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	36.000 FT	36.000 FT	36.000 FT	9.828	3

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49386800 HT: 25391932 PC: 3 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:1000873303

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
0003	42891	D6061-T6 3/4 OD X .125 WA		12 FT ML	

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	12.000 FT	12.000 FT	12.000 FT	3.463	1

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

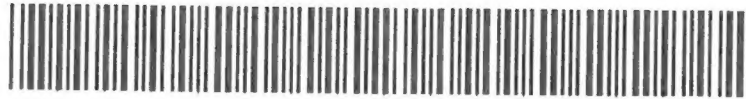
ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49387366 HT: F002672230002 PC: 1 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:225794

THANK YOU FOR THIS ORDER

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O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 80944829 FROM: CHIC PAGE 2

CUST NUMBER: 1203820 NET WGT: 20.393 REQ.DATE: 07/17/18 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 07/10/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO040406 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
BROKERS KUEHNE AND NAGEL LTD

AREA		TYPE OF PKG		PACK INFO		WIDTH		LENGTH		HGHT	
YRC	REDDICRATE	PKGS	GRS	WEIGHT	WIDTH	LENGTH	CUBIC FT				
		1.000		45.000	4.0000	150.0000		4			
							1.3889				
		1.000		45.000							

BY: CL
RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED _____

1

DATE FILLED _____

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
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O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 80944829

FROM: CHIC

PAGE 3

CUST NUMBER: 1203820	NET WGT: 20.393	REQ.DATE: 07/17/18	CONFIRMED
SOLD TO:	SHIP TO:		
DART AEROSPACE LTD	DART AEROSPACE LTD		
1270 ABERDEEN ST	1270 ABERDEEN ST		
HAWKESBURY ON	HAWKESBURY ON		
CANADA	CN K6A 1K7	ONTARIO CANADA	CN K6A 1K7

SALESPERSON: DONNA SMALLEY	SHIP BY: 07/10/18
TERMS: NET 30 DAYS	235 TUBEWAY
F.O.B.: SHIPPING POINT	CAROL STREAM IL 60188
CUST ORD NO.: PO040406	
VIA: COMMON CARRIER	
FREIGHT: PREPAID	
RELEASE NO.:	
RECEIVING PHONE:	

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk Cynthia Simon Date: 7/10/18

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
<http://www.twmetals.com/invoice-terms.html>



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040406**

Supplier: TWM001-VU
TW Metals
PO Box 933014
Atlanta, GA 31193-3014 USA
Phone: 585 768 5600
Fax: 585 768 5601

PO No: PO040406

PO Date: 7/5/18

Due Date: 7/17/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED
JUL 05 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1 ✓ H		M304TR0.500W.049		304 Round Tube .500 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	7/17/18	100 ft	0 ft	100 ft	\$2.7998/ft	\$279.98
2 ✓ H		M304TR0.750W.049		304 Round Tube .750 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	7/17/18	140 ft	0 ft	140 ft	\$2.579/ft	\$361.06
3 ✓ H		M4130NT0.750W.049		4130 Round Tube .750 X.049W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft	Firmed	7/17/18	40 ft	0 ft	40 ft	\$6.00/ft	\$240.00

Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
4 ✓ AT		M6061T6T0.3125W.058		Aluminum Tube .3125 X .058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	7/17/18	120 ft	0 ft	120 ft	\$3.0789/ft	\$369.47
5 ✓ AT		M6061T6T0.375W.058		6061-T6 Round Tube .375 X .058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	7/17/18	120 ft	0 ft	120 ft	\$2.6404/ft	\$316.85
6 ✓ AT		M6061T6T0.750W.058		6061-T6 Round Tube .750 X .058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	7/17/18	48 ft	0 ft	48 ft	\$2.9985/ft	\$143.93
7 ✓ AT		M6061T6TS1.000W.065		6061T6 Sq Tube 1.00 X 1.00 X 0.065W Rounded Corners : MATERIAL: 6061-T6 OR 6061-T651/T6510/T6511/T62 SQUARE TUBING AS PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR PER AMS-QQ-A-200/8 OR AMS 4160 receive ft	Firmed	7/17/18	36 ft	0 ft	36 ft	\$9.80/ft	\$352.80
8 ✓ AT		M6061T6T1.000W.035		6061-T6 Round Tube 1" X .035" Wall : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	7/17/18	12 ft	0 ft	12 ft	\$5.3559/ft	\$64.27

PURCHASE ORDER

Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
9		M6061T6T0.750W.125		6061-T6 Round Tube .750 X .125W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	7/17/18	12 ft	0 ft	12 ft	\$9.20/ft	\$110.40
10		M6061T6T0.625W.065		6061-T6 Round Tube .625 X.065W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	7/17/18	24 ft	0 ft	24 ft	\$3.1499/ft	\$75.60
Grand Total: \$2,314.35											

Grand Total: \$2,314.35

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 7/5/18 8:18 AM dart.lavoie.chantal



27 ENGLEHARD DRIVE
MONROE TWP NJ 08831
Tel: 609-655-4120
FAX: 6096552603

Invoice#: 60660313
Cust. PO#: PO040406
Incoterms: SHIPPING POINT
Frts. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 7/10/18
	Ship Date: 7/09/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM#/LINE#	DESCRIPTION	QUANTITY	UNIT	VALUE	SUBTOTAL
36506	SMLS CD 304/L A269 1/2 OD X .049 WA	100.000 FT	\$	2.8000 FT	\$ 280.00
1	STAINLESS STEEL TUBE ROUND	0 IN			
	PART NUMBER:	5.000 PC			
	ECCN: 2B999.g				
	SCHEDULE B:7304.41.0000				
	S/S PIPE/TUBE ROUND SMLS W/OD </=3"				
	NET WGT: 23.592 LBS				
	COUNTRY OF MFG: CHINA				
36860	SMLS CD 304/L A269 3/4 OD X .049 WA	140.000 FT	\$	2.5700 FT	\$ 359.80
2	STAINLESS STEEL TUBE ROUND	0 IN			
	PART NUMBER:	7.000 PC			
	ECCN: 2B999.g				
	SCHEDULE B:7304.11.0000				
<p align="center">EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00</p>					
<p>TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC.</p> <p>THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.</p>					
Page 1					CONTINUE



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NJ 08831

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Invoice#: 60660313

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Frts. Terms: PREPAID

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	Ship Date: 7/09/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	NET WGT: 51.341 LBS COUNTRY OF MFG: CHINA			
33047	CDS 4130 6736 3/4 X .049	37.000 FT	\$ 6.0000 FT	\$ 222.00
3	ALLOY TUBE ROUND	2.000 PC		
	PART NUMBER:			
	ECCN: 9A991.d			
	SCHEDULE B:7304.51.0000			
	ALLOY TUBE ROUND SMLS W/OD </=3"			
	NET WGT: 13.569 LBS			
	COUNTRY OF MFG: UNITED STATES			
41723	D6061-T6 5/16 OD X .058 WA	120.000 FT	\$ 3.0800 FT	\$ 369.60
4	ALUMINUM TUBE ROUND	10.000 PC		
	PART NUMBER:			
	EXPORT LICENSE NUMBER: NLR			
	EXPIRATION DATE: 00/00/00			
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	Page 2			CONTINUE



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	Ship Date: 7/09/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	ECCN: EAR99 SCHEDULE B:7608.20.0030 ALUM PIPE/TUBE - SEAMLESS NET WGT: 6.552 LBS COUNTRY OF MFG: UNITED STATES			
41952	D6061-T6 3/8 OD X .058 WA	120.000 FT	\$ 2.6400 FT	\$ 316.80
		0 IN		
5	ALUMINUM TUBE ROUND	10.000 PC		
	PART NUMBER:			
	ECCN: EAR99 SCHEDULE B:7608.20.0030 ALUM PIPE/TUBE - SEAMLESS NET WGT: 8.136 LBS COUNTRY OF MFG: UNITED STATES			
43160	D6061-T6 1 OD X .035 WA	12.000 FT	\$ 5.3500 FT	\$ 64.20
EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00				
TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.				CONTINUE
Page				3



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Ship Via: COMMON CARRIER

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Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA Contact: CHANTAL 16136321053	Invoice Date: 7/10/18
	Ship Date: 7/09/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
6	ALUMINUM TUBE ROUND PART NUMBER: ECCN: EAR99 SCHEDULE B:7608.20.0030 ALUM PIPE/TUBE - SEAMLESS NET WGT: 1.499 LBS COUNTRY OF MFG: UNITED STATES	0 IN 1.000 PC		
42558	D6061-T6 5/8 OD X .065 WA	24.000 FT	\$ 3.1500 FT	\$ 75.60
7	ALUMINUM TUBE ROUND PART NUMBER: ECCN: EAR99 SCHEDULE B:7608.20.0030 ALUM PIPE/TUBE - SEAMLESS NET WGT: 3.214 LBS COUNTRY OF MFG: UNITED STATES	0 IN 2.000 PC		
EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00				
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Page 4				CONTINUE



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Cust. PO#: P0040406
Incoterms: SHIPPING POINT
Frt. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

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	Ship Date: 7/09/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	QUANTITY AND TYPE OF BOXES:			
	1 REDDICRATE			
	246.0000 X 4.0000 X 5.0000			
	TOTAL WGT: 167.903 LBS			
	GROSS WGT: 167.903 LBS			
EXPORT LICENSE NUMBER: NLR				
EXPIRATION DATE: 00/00/00				
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Sales Tax				.00
Payable in US Dollars				1688.00
Page 5				



235 TUBEWAY
CAROL STREAM IL 60188
Tel: 630-690-0110
FAX: 16306902105

Invoice#: 80944829
Cust. PO#: PO040406
Incoterms: SHIPPING POINT
Frt. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 7/10/18
	Ship Date: 7/10/18
	Payment Terms: NET 30 DAYS
Freight Forwarder/Intermediate Ship To:	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7

ITEM#/LINE#	DESCRIPTION	QUANTITY	UNIT	VALUE	SUBTOTAL
42807	D6061-T6 3/4 OD X .058 WA	48.000 FT	\$	3.0000 FT	\$ 144.00
1	ALUMINUM TUBE ROUND	0 IN			
	4.000 PC				
	PART NUMBER:				
	ECCN: EAR99				
	SCHEDULE B:7608.20.0030				
	ALUM PIPE/TUBE - SEAMLESS				
	NET WGT: 7.102 LBS				
	COUNTRY OF MFG: UNITED STATES				
45936	D6061-T6 SQ-RC R.156 1 SQ X .065 WA	36.000 FT	\$	9.8000 FT	\$ 352.80
2	ALUMINUM TUBE SQUARE	0 IN			
	3.000 PC				
	PART NUMBER:				
	ECCN: EAR99				
EXPORT LICENSE NUMBER: NLR					
EXPIRATION DATE: 00/00/00					
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Page 1					
CONTINUE					



235 TUBEWAY
 CAROL STREAM IL 60188
 Tel: 630-690-0110
 FAX: 16306902105

Invoice#: 80944829
 Cust. PO#: P0040406
 Incoterms: SHIPPING POINT
 Frt. Terms: PREPAID
 Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 7/10/18
	Ship Date: 7/10/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	NET WGT: 9.828 LBS COUNTRY OF MFG: UNITED STATES			
42891	D6061-T6 3/4 OD X .125 WA	12.000 FT	\$ 9.2000 FT	\$ 110.40
		0 IN		
3	ALUMINUM TUBE ROUND	1.000 PC		
	PART NUMBER:			
	ECCN: EAR99 SCHEDULE B: 7608.20.0030 ALUM PIPE/TUBE - SEAMLESS			
	NET WGT: 3.463 LBS COUNTRY OF MFG: UNITED STATES FREIGHT CHARGES			.00
	QUANTITY AND TYPE OF BOXES:			
	1 REDDICRATE			
	150.0000 X 4.0000 X 4.0000			
	EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00			
	TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC. THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.			
	Page 2			CONTINUE



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	Ship Date: 7/10/18
	Payment Terms: NET 30 DAYS
Freight Forwarder/Intermediate Ship To:	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	TOTAL WGT: 20.000 LBS GROSS WGT: 45.000 LBS			
EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00				
TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC. THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.				
Payable in			Sales Tax US Dollars	.00 607.20
Page 3				



JIAXING MT STAINLESS STEEL CO.,LTD

MILL TEST CERTIFICATE

EN10204 3.1 CERTIFICATE

ISO 9001: 2015 TUV SUD CERT REGISTRATION No.: 01 100 095954
PED/97/23/CE EURO CERT CERTIFICATE NO:CN.CE.1110S1-02/14



Precisely Right.

CERTIFICATE NO.: 18MTC-180419769-10

SALES CONTRACT NO.: M 49380769

COMMODITY: STAINLESS STEEL SEAMLESS TUBE

SPECIFICATION: ASTM A269-15a, ASTM A213-17, ASME SA213-17

PURCHASER: KASUGAI CO., LTD.

ORDER: M 49380769

DATE OF REPORT: 2018-4-19

Steel Grade	Heat No.	Dimensions			Quantity		Process	Delivery Condition	Macroscopic Inspection	
		O.D. (INCH)	W.T. (INCH)	Length (FT)	FT	Piece			End Cut	Appearance
TP304/TP304L	N171009AS12	1/2	0.049	20	10460	523	Cold-Drawn	Pickled & 320 Grit polish	Passed	Passed

Chemical Composition (W.T. %)

Element	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	-	-	-	-	-
Requirements	≤0.035	≤1.00	≤2.00	≤0.045	≤0.030	18.0-20.0	8.0-11.0	-	-	-	-	-	-	-
Ladle Analysis	0.014	0.38	1.34	0.031	0.001	18.21	8.04	-	-	-	-	-	-	-

Mechanical Properties

Test Item	Y.S. (MPa) Rp0.2	T.S. (MPa) Rm	EL. (%) In2in	Reduction of Area Z (%)	Hardness HRC	Cold Bend Test	Flaring Test	Flattening Test	P.M.I. TEST
Requirements	≥205	≥515	≥35	-	≤80	-	-	e=0.09	-
Test Results	290	605	60	-	77	Passed	Passed	Passed	Passed

Test Item	Non Destructive Tests		Remarks
	Eddy Current Test		
Requirements	ASTM E 426		- ASTM A269-15a, ASTM A213-17, ASME SA213-17 - TUBES TESTED PER ASTM A1016/1016M - SOLUTION HEAT TREATMENT: 1050°C X 1.5m/min - NO WELD REPAIR WAS PERFORMED. - PMI TESTING DONE ON EACH TUBE – SATISFACTORY - IN COMPLIANCE WITH NACE MR0175/ISO 15156-2015 - FREE FROM MERCURY CONTAMINATION - MATERIAL IS FREE FROM RADIOACTIVITY - VISUAL CHECK IS SATISFACTORY - COUNTRY OF ORIGIN: CHINA - COUNTRY OF MELT: CHINA
Test Results	Passed		

304 STAINLESS STEEL
QUALITY CONTROL
DEP.

TW METALS
REPORTS

TEST

JUN 08 2018

Eric T.



1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND THE TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT
2. THE CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.

Prepared by:

[Signature]

Approved by:

[Signature]

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL AISI 304/316 SS SEAMLESS ROUND TUBING
 SPECIFICATION ASTM A213 OR ASME SA213 OR ASTM A269
 WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	PERMISSIBLE OD TOL (IN)	PERMISSIBLE WALL TOL
UP TO 1/2	±0.005	±15%
1/2 TO 1 1/2 EXCL	±0.005	±10%
1 1/2 TO 3 1/2 EXCL	±0.010	±10%
3 1/2 TO 5 1/2 EXCL	±0.015	±10%
5 1/2 TO 8 EXCL	±0.030	±10%

PART NUMBER M304-TRD-DDD-W-1TT
 WHERE "DDD" = OUTSIDE DIAMETER IN INCHES
 AND "1TT" = WALL THICKNESS IN INCHES
 EG. 0.375" OD X 0.065" WALL TUBING = M304 TRD 375W.065

RELEASED
 08/26/23

B	REWORK: WAG, ADD SPEC (ZN D8-1)	CP	08 10 20
A	REF PAR 08 120A	DS	01 06 09
REV	NEW ISSUE	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		MARKESBURY ONTARIO, CANADA	
CHECKED		DRAWING NO	REV. B
MFG. APPR		M304TR	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR		304/316 ROUND TUBING	NTS
DATE	08 10 20	CONTINUED P. 2004 RV DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304TR0.500W.049
 DATE: 18/07/17

PO / BATCH NO.: P0040406/S012649

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 100'
 QUANTITY INSPECTED: 100'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"
 THICKNESS RECEIVED: 0.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	ASTM A269
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	MT: N171009AS12
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DATE: <u>18/07/17</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MILS

JIAXING MT STAINLESS STEEL CO.,LTD

MILL TEST CERTIFICATE

EN10204 3.1 CERTIFICATE

ISO 9001: 2008 TUV SUD CERT REGISTRATION No.: 01 100 095954

PED/97/23/CE EURO CERT CERTIFICATE NO:CN.CE.1110S1-02/14



Precisely Right.

CERTIFICATE NO.: 17MTC-101704

SALES CONTRACT NO.: M 49370267

COMMODITY: STAINLESS STEEL SEAMLESS PIPE

SPECIFICATION: ASTM A213-15c ASTM A269-15a, ASME SA213-15 AVG WALL

PURCHASER: KASUGAI CO., LTD.

ORDER: M 49370267

DATE OF REPORT: 2017-10-17

Steel Grade	Heat No.	Dimensions			Quantity		Process	Delivery Condition	Macroscopic Inspection	
		O.D. (INCH)	W.T. (INCH)	Length (FT)	FT	Piece			End Cut	Appearance
TP304/304L	N170711AS10	3/4	0.049	20	6760	338	Cold-Drawn	Annealed & Pickled & 320 Grit min	Passed	Passed

Chemical Composition (W.T. %)

Element	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	-	-
Requirements	≤0.035	≤1.00	≤2.00	≤0.045	≤0.030	18.0-20.0	8.0-12.0	-	-	-	-
Ladle Analysis	0.017	0.34	1.32	0.027	0.001	18.13	8.01	2.05	-	-	-

Mechanical Properties

Test Item	Y.S. (MPa)		T.S. (MPa)	EL. (%)		Reduction of Area Z (%)	Hardness HRB	Cold Bend Test	Flaring Test	Flattening Test	P.M.I. TEST
	Rm0.2	Rm		In2in	In2in						
Requirements	≥170	≥485		≥35		-	≤80	-	-	e=0.09	-
Test Results	260	625		55		-	76	Passed	Passed	Passed	Passed

Non Destructive Tests

Test Item	Eddy Current Test	
	ASTM E 426	
	Passed	

Remarks:

- ASTM A213-15c (ASTM A269) 15a, ASME SA213-15 AVG WALL
- PIPES TESTED PER ASTM A1016
- SOLUTION HEAT TREATMENT: 1050°C X 1.5m/min
- NO WELD REPAIR WAS PERFORMED.
- PMI TESTING DONE ON EACH PIPE - SATISFACTORY
- IN COMPLIANCE WITH NACE MR0175/ISO 15156-2015
- FREE FROM MERCURY CONTAMINATION
- MATERIAL IS FREE FROM RADIOACTIVITY
- VISUAL CHECK IS SATISFACTORY
- COUNTRY OF ORIGIN: CHINA
- COUNTRY OF MELT: CHINA

1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND THE TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT

2. THE CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.

Prepared by:

Approved by:

TW METALS

REPORTS
FEB 21 2018
TEST

ACCEPTED BY
Shen Kenna

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL AISI 304/316 SS SEAMLESS ROUND TUBING
SPECIFICATION: ASTM A213 OR ASME SA213 OR ASTM A269

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

	PERMISSIBLE OD TOL (IN)	PERMISSIBLE WALL TOL
UP TO 1/8"	±0.005	±15%
1/8" TO 1/4", EXCL.	±0.005	±10%
1/4" TO 3/8", EXCL.	±0.010	±10%
3/8" TO 1/2", EXCL.	±0.015	±10%
1/2" TO 8" EXCL.	±0.030	±10%

PART NUMBER

M304TRD.DDDW.TTT
OD WALL

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES
AND "TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TRD 375W.065

RELEASED
8/26/23

B	REFORMAT DWG. ADD SPECS (2N D8-1).	CP	08 10 20
A	REF. PART 06 020A	DS	01 06 08
REV	NEW ISSUE	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR			
APPROVED			
DE APPR			
DATE	08 10 20		
DART AEROSPACE LTD HAYKESBURY, ONTARIO, CANADA			
DRAWING NO M304TR		REV. B	
TITLE 304/316 ROUND TUBING		SHEET 1 OF 1	
SCALE NTS		NTS	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 304 TK0.750W.049
 DATE: 18/07/17

PO / BATCH NO.: P0040406/8092700

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 140'
 QUANTITY INSPECTED: 140'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
 THICKNESS RECEIVED: 0.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	ASTM A269
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	MT: N170711 AS10
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AI</u>	SIGNED OFF BY: _____		
DATE: <u>18/07/17</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



PLYMOUTH TUBE CO. USA

1209 East 12th Street, Streator, Illinois 61364

Phone: (815) 673-1515 Fax: (815) 672-7343

TRUST YOUR SOURCE! ACCEPT NO SUBSTITUTIONS!



PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS

162122 - 1 / 1

SHIP TO

TW Metals
27 Englehard Drive
Monroe Township, NJ 08831
USA

WORK ORDER 022929

HEAT NUMBER 24211

MELT SOURCE Timken Steel - Melt/Mfg. USA

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	LADING NO	CERT ID / REV	CERT DATE								
M 49386235	33047	3,249.5 ft	00101235	01	06/01/2018								
PART DESCRIPTION H07500490J000Z OD: 0.7500" Max: 0.7550" Min: 0.7450" Wall: 0.0490" Max: 0.0540" Min: 0.0440" Length: 17.00' / 24.00' Spec: MJL-T 6736B Seamless Aircraft Grade: 4130 Finish: Cond N													
CERTIFICATION REQUIREMENTS FAR BAA (FAR 52.225-1 Buy America Act Supplies). DFARS 252.225-7001 By America Act & Bal. of Payments Program FAR TAA (FAR 52.225-5 Trade Agreements)(Paragraph 1,3,4,5) This material was Eddy Current tested and conforms to the requirements of ASTM A-450. The Grain size is determined and reported by the raw material supplier in accordance to ASTM E-112. This raw material was magnetic particle inspected by the raw material supplier in accordance to AMS 2640J and/or ASTM E-1444, and rated as Frequency, and Severity to AMS 2301, latest revision. Yield is determined by using the 0.2% offset method. This material meets Plymouth ProMoly specifications.													
Chemical Analysis													
C	Mn	P	S	Si	Al	Cr	Mo	Ni	Pb	Cu	V	Ti	Sn
.29	.56	.007	.007	.30	.032	1.02	.20	.13	0	.16	0	0	.009
Physical Properties													
Freq.	Severity	Grain Size											
0	0	8											
Mechanical Properties													
TEST	UNITS	#TESTS	HIGH	LOW	AVERAGE	STD-DEV							
Tensile	Psi	36	114580	108440	111752	1386							
Yield	Psi	36	107380	102030	104853	1234							
Elongation	%	36	19	18	18	1							
Rockwell C	Rc	36	21	21	21	0							
TEST	RESULT												
Decarb/OD	Pass												
Total ID/OD decarb	Pass												
Additional Specification(s)													
AMS-T6736 B, AMS 6360M													

TW METALS
JUN - 7 2018
ACCEPTED

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Streator in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube.

Jamie Berosselt
Quality Assurance



PLYMOUTH TUBE CO. USA

1209 East 12th Street, Streator, Illinois 61364

Phone: (815) 673-1515 Fax: (815) 672-7343

TRUST YOUR SOURCE! ACCEPT NO SUBSTITUTIONS!



PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS

162122 - 1 / 1

SHIP TO

TW Metals
27 Englehard Drive
Monroe Township, NJ 08831
USA

WORK ORDER 022929
HEAT NUMBER 24211
MELT SOURCE Timken Steel - Melt/Mfg. USA

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	LADING NO	CERT ID / REV	CERT DATE
M 49386235	33047	3,249.5 ft	00101235	01	06/01/2018
PART DESCRIPTION H07500490J000Z					
<p>This test report data is for the heat Chemistry Stated above.</p> <p>The material in this test report is:</p> <ol style="list-style-type: none">1) Drawn in the USA2) Free from Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Mercury contamination.3) NAFTA compliant. <p>End of Certification</p>					

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Streator in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube.

Janice Berossuff
Quality Assurance

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 4130N SEAMLESS STEEL TUBING

SPECIFICATION: MIL-T-6730 OR AMS 6371, 6360, 6301, 6362, 6373, 6374

PART NUMBER: M4130N (D.DDD W.TTT) WHERE: "D.DDD" = OUTER DIAMETER (IN INCHES)
AND "TTT" = WALL THICKNESS (IN INCHES)

EG. 3/4" TUBING WITH .035" WALL = M4130NT0.750W.035

RELEASE
R 2012-04-16

B		REFORMAT DWG TO ACCOMMODATE ADDITIONAL TUBE DIAMETERS AND WALL THICKNESS		RP	12 04 02
A		NEW ISSUE		JB	01 95 16
REV		DESCRIPTION		BY	DATE
DESIGN	JB	DART AEROSPACE LTD			
DRAWN	RP	HAYNESBURY, ONTARIO CANADA			
CHECKED	AP	DRAWING NO.		REV B	
MFG APPR		M4130N-T		SHEET 1 OF 1	
APPROVED		TITLE		SCALE	
DE APPR		STEEL TUBING		NTS	
DATE	12.04.02	COPYRIGHT © 2001 BY DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130N TO .750W.049
 DATE: 18/07/17

PO / BATCH NO.: P0040406/S092701

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 40'
 QUANTITY INSPECTED: 40'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
 THICKNESS RECEIVED: 0.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	M:1-7 6736
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	MT: 24211
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____	
DATE: <u>18/07/17</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO. M 49380591 LINE 001	CUST. ORD. NO. 475790	PRECISION TUBE P/N 24A031250580005
SOLD: TW METALS TO 175 TUBEWAY FOREST PARK, GA 30298 UNITED STATES		SHIP: TW METALS TO 175 TUBEWAY FOREST PARK, GA 30298 UNITED STATES

QUANTITY ORD.	DESCRIPTION	QTY. SHIPPED	DATE SHIPPED
3204 FT	METAL - 6061 ALUM TEMPER - T6 SPEC - AMS 4082P ASTM-B-210-12 AMS-WW-T-700/6C LENGTH - 12 FT LGTH TOL +.1250 IN -.0000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS OD .3125 +.0030 -.0030 ID WALL .0580 +.0040 -.0040	3456 FT	12/13/17

MECHANICAL PROPERTIES

SAMPLE #	TENSILE STRENGTH (P.S.I.)	YIELD STRENGTH (P.S.I.)	ELONGATION IN 2 INCHES (%)	ROCKWELL HARDNESS	AVERAGE GRAIN SIZE (MM.)
1	46,376	41,941	12		
2	45,712	40,899	15		

DESTRUCTIVE TESTS

Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES

NON-DESTRUCTIVE TESTS

EDDY CURRENT: PASS

CHEMICAL COMPOSITION

ALLOY: 6061		HEAT:		TRACEABILITY #: 2927553					
				RAW MATL VENDOR: PTC13607 - KAISER ALUMINUM INVESTMENTS					
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Min	0.40		0.15		0.80	0.04			Rem.
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	
OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL									

We hereby certify that the material has been manufactured in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device involving a single boundary containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

DEC 19 2017

49380591
TW METALS

Melted and Manufactured in USA
QMS Registered to ISO 9001: 2008

By: Jennifer James
Jennifer James
Quality & Technical Lead

12/13/17

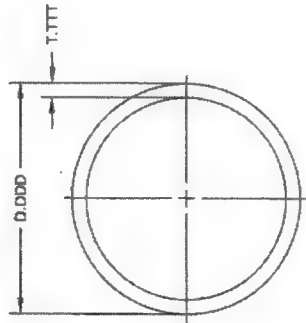
Page: 1 of 1

PURCHASE MATERIAL 6061-T6 T62/T6510/T6511 SEAMLESS TUBING

SPECIFICATION: WW-T-7008
OR QQ-A-200/8 OR QQ-A-225/8
OR AMS 4080 OR AMS 4082 OR AMS 4083
OR ASTM B210 OR ASTM B241

PART NUMBER: M6061T6T D.DDD W/T.TTT
OD | WALL

WHERE "D.DDD" = OD IN INCHES
"T.TTT" = WALL THICKNESS
EG. 3.8" OD X 0.058 WALL = M6061T6T0.375W0.058
MATERIAL TOLERANCE: PER ANSI H35.2



RELEASED
2013-07-02

C	COMPLETE REFORMAT, ADDED T6510 & T6511. ADDED AMS 4083, ASTM B210 & ASTM B241 ADDED MATERIAL TOLERANCE	AJS	13.06.12
B	ADD QQ-A-200/8 & QQ-A-225/8	CP	04.01.23
A	NEW ISSUE	DS	01.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	W		
MFG. APPR.	W		
APPROVED	W		
DE APPR.	W		
DATE	13.06.12		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. C	
DRAWING NO. M6061T6T		SHEET 1 OF 1	
TITLE 6061-T6 TUBING		SCALE NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 T0.3125W-058

PO / BATCH NO.: P0040406/S092702

DATE: 18/02/17

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.3125"

QUANTITY RECEIVED: 120'

THICKNESS RECEIVED: 0.3125"

QUANTITY INSPECTED: 140'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	AMS 4082
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	LT 2927553
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/02/17</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

KAISER ALUMINUM FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49389319-1		CUSTOMER PART NUMBER: 41952		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 226113	LINE ITEM: 001	SHIP DATE: 05/29/2018	KAISER LOT NUMBER: F00270254	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 389.000 LB	QUANTITY: 479.000 PCS	B/L NUMBER: 229783	DIAM/DAF/THKNS: WIDTH:	LENGTH: 12.000 FT	
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

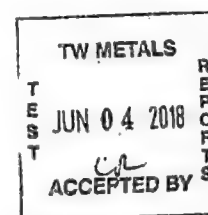
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00270254	0001	0001	46.4	37.6	18.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D21279	.58	.18	.22	.06	.97	.06	.02	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.3750"; Wall: 0.0580"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA.
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00028471
Kaiser Order Number: 226113
Line Item: 001

c

KAISER ALUMINUM

FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

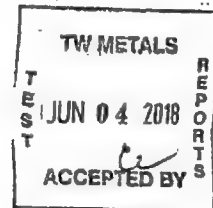
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager.



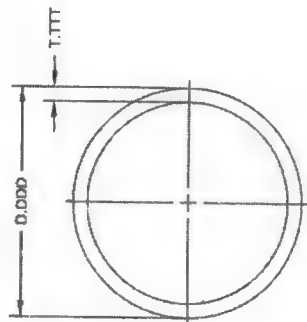
Plant Serial: 00028471
Kaiser Order Number: 226113
Line Item: 001



PURCHASE MATERIAL: 6061-T6/1627651076511 SEAMLESS TUBING
 SPECIFICATION: C
 WW-T-7008
 OR QQ-A-200/8 OR QQ-A-226/8
 OR AMS 4080 OR AMS 4082 OR AMS 4083
 OR ASTM B210 OR ASTM B241 C

PART NUMBER: M6061T6T ID.DDD/WT.TTT
 OD | WALL C

WHERE "D.DDD" = OD IN INCHES
 "T.TTT" = WALL THICKNESS
 EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058
 MATERIAL TOLERANCE: PER ANSI H35.2 C



RELEASED
 2013-07-02
 [Signature]

C	COMPLETE REFORMAT, ADDED T6510 & T6511. ADDED AMS 4083, ASTM B210 & ASTM B241. ADDED MATERIAL TOLERANCE	AJS	13.06.12
B	ADD QQ-A-200/8 & QQ-A-226/8	CP	04.01.23
A	NEW ISSUE	D6	01.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	[Signature]		
MFG. APPR.	[Signature]		
APPROVED	[Signature]		
DE APPR.	[Signature]		
DATE	13.06.12		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M6061T6T TITLE 6061-T6 TUBING SCALE NTS REV. C SHEET 1 OF 1 COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES FOR WHICH IT WAS ISSUED AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 70.375W.058
 DATE: 18/07/17

PO / BATCH NO.: P0040406 / S92703

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 120'
 QUANTITY INSPECTED: 120'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375"
 THICKNESS RECEIVED: 0.375"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	AMS 4082
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	MT: F00270254 0601
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 1B INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u>		SIGNED OFF BY: _____	
DATE: <u>18/07/17</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

KAISER ALUMINUM

FABRICATED PRODUCTS

Beck

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49388916-1		CUSTOMER PART NUMBER: 42807		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 226020	LINE ITEM: 001	SHIP DATE: 05/18/2018	KAISER LOT NUMBER: F00269835	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 332.000 LB	QUANTITY: 187.000 PCS	B/L NUMBER: 229660	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

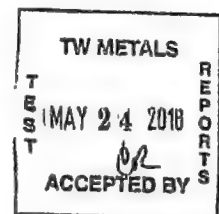
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON% IACS	BEND
F00269835	0001	0001	45.9	39.2	20.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D21416	.60	.28	.23	.05	.95	.10	.06	.03	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.7500"; Wall: 0.0580"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00028353
Kaiser Order Number: 226020
Line Item: 001

e

KAISER ALUMINUM

FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



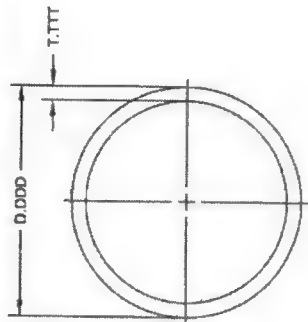
PURCHASE MATERIAL: 6061-T6 762/76510/76511 SEAMLESS TUBING

SPECIFICATION: W-7-7008
 OR QQ-A-200/8 OR QQ-A-225/8
 OR AMS 4080 OR AMS 4082 DR AMS 4083
 OR ASTM B210 OR ASTM B241

PART NUMBER: M6061T6T D.DDD/W.T.TTT
 OD WALL

WHERE "D.DDD" = OD IN INCHES
 "T.TTT" = WALL THICKNESS
 EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058

MATERIAL TOLERANCE: PER ANSI H35.2



RELEASED
 2013-07-02

C	COMPLETE REFORMAT, ADDED T6510 & T6511, ADDED AMS 4083, ASTM B210 & ASTM B241 ADDED MATERIAL TOLERANCE	AJS	13.06.12
B	ADD QQ-A-200/8 & QQ-A-225/8	CP	04.01.23
A	NEW ISSUE	DS	01.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR			
DATE	13.06.12		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M6061T6T
TITLE	6061-T6 TUBING
SCALE	NTS
SHEET 1 OF 1	REV. C

DATE 13.06.12

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6 06176 TO 750W.058
 DATE: 18/07/17

PO / BATCH NO.: P0040406 / 509 2704

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 48'
 QUANTITY INSPECTED: 48'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
 THICKNESS RECEIVED: 0.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	AMS 4082
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	LT: F00264835 Doc 1
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/07/17</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Certified Inspection Report

ARCONIC FORGING AND EXTRUSIONS
Lafayette Operations
3131 East Main Street
Lafayette, IN
47905-7500



Arconic, Inc.

Invoice To Customer

TW METALS INC
-THE ARBORETUM SUITE 204
760 CONSTITUTION DR
EXTON, PA - 19341

Ship To Customer

TW METALS INC
235 W. TUBEWAY
CAROL STREAM, IL - 60188



Sales Order Number		Customer P/O		Cert Number	Page
1000873303	Line No.	16.1	49386800-001 / ITEM 45936	AEP1760255	1/2
					Cert Print Date
				07-JUN-18	07-JUN-18

Item Description		Drawn Tube by Section	
SECT T-1095 (1.000 x 1.000 x 0.065)		144 IN LN	
6061 T705		W/F 0.269	
Marking CONTINUOUS; Oiling N		WV-T-700/6 REV F, AM2, NOTI	
ASTM B210 REV 12		C949-74.2.005 REV 9	
AS9100 REV D		MMS1440 REV A	

ASTM B210
accept HSLC for
M6061T6TS
DMS
12
9-88
14/7/17

Notes

THE MATERIAL FOR THIS ORDER WAS MELTED AND MANUFACTURED IN USA.

OCR - .156

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

CAST/JOB NUMBER : 1806-M71/25391932

Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title

Melissa J. Griffith

Melissa Griffith
Quality Control Manager
07-JUN-18

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Gross	Net
G17-PKG897050	25391932	76	PCS	265	245
G17-PKG897052	25391932	77	PCS	269	249

Composition Limits

Alloy	Wt %	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6061	Min	0.40	0.7	0.15	0.15	0.8	0.04	0.25	---
	Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15

Others Total

Alloy	Wt %	Others Each
6061	Min	---
	Max	0.05

Composition Results

Heat / Cast / Lot Number	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
1806-M71	0.6	0.27	0.28	0.03	0.9	0.06	0.01	0.02

Certified Inspection Report

ARCONIC FORGING AND EXTRUSIONS
Lafayette Operations
3131 East Main Street
Lafayette, IN 47905-7500



Sales Order Number		Customer P/O		Cert Number	Page
1000873303	Line No.	16.1	49386800-001 / ITEM 45936	AEPI1760255	2/2
				07-JUN-18	07-JUN-18

Composition Results

Heat / Cast / Lot Number	Others Each	Others Total
1806-M71	--	--

Mechanical

Property - Test Results

Test Type		UTS - L	TYS - L	EL 4D-Long
UOM		KSI	KSI	PCT
# of Tests				
Piece / Test ID		Results	Results	Results
1-F		46.7	42.9	18.5
Lot Number				
25391932				
Test Temper				
T6				

Other - Test Limits

Test Type	Dimensional
UOM	
# of Tests	
Lot Number	Min
SPEC LIMITS	P
Test Temper	Max
T6	---

Other - Test Results

Test Type	Dimensional
UOM	
# of Tests	
Lot Number	Results
25391932	P
Test Temper	
T6	

Cert Notes

Made in USA

The test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.





DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>CP</i>	APPROVED <i>[Signature]</i>	DRAWING NO. M6061T6TS	REV. A SHEET 1 of 1
DATE 01.09.24		TITLE 6061-T6 SQUARE TUBING	
A		01.09.24 NEW ISSUE	

PURCHASE MATERIAL:

6061-T6 (OR 6061-T6S1/T6S10/T6S11/T6S2) SQUARE TUBING
 PER AMS - QQ-A-225/8 (OR AMS 4117/4118/4119/4116) OR
 PER AMS - QQ-A-200/8 (OR AMS 4160)

PART NUMBER:

M6061T6TS | A.AAA | W | .TTT |
 | WIDTH | | WALL |

WHERE A.AAA = WIDTH IN INCHES
 .TTT = WALL THICKNESS IN INCHES

E.G. 0.75" x 0.75" x 0.062" WALL = M6061T6TS 0.750W.062

RELEASED
 01.09.24

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6TSi.000W.065
 DATE: 18/07/17

PO / BATCH NO.: P0040406 / 5092705

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 36'
 QUANTITY INSPECTED: 36'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: 1.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	ASTM B210
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	HT: 25391932
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DATE: <u>18/07/17</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

KAISER ALUMINUM

FABRICATED PRODUCTS



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49383924-1		CUSTOMER PART NUMBER: 43160		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 225274	LINE ITEM: 001	SHIP DATE: 03/05/2018	KAISER LOT NUMBER: F00263075	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 422.000 LB	QUANTITY: 283.000 PCS	B/L NUMBER: 228744	DIAM/DEPTH/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

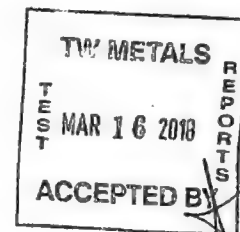
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON% IACS	BEND
F00263075	0001	0001	47.8	41.2	20.0	N/A	N/A	N/A
F00263075	0001	0002	48.2	42.5	20.5	N/A	N/A	N/A
F00263075	0002	0001	48.5	42.3	21.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D30855	.61	.22	.23	.02	.96	.06	.02	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 1.0000"; Wall: 0.0350"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00027597
Kaiser Order Number: 225274
Line Item: 001

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



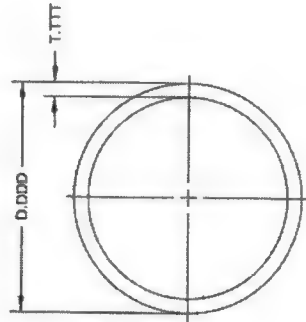
Plant Serial: 00027597
Kaiser Order Number: 225274
Line Item: 001

PURCHASE MATERIAL: 6061-T6 6061-T627851076511 SEAMLESS TUBING

SPECIFICATION: C
 WW-T-7006
 OR QQ-A-200/8 OR QQ-A-225/8
 OR AMS 4080 OR AMS 4082 OR AMS 4083
 OR ASTM B210 OR ASTM B241

PART NUMBER: M6061T6T1D.DDDWIT.TTT
 OD | WALL

WHERE "D.DDD" = OD IN INCHES
 "T.TTT" = WALL THICKNESS
 EG. 3/8" OD X 0.058 WALL = M6061T6T1D.375W0.058
 MATERIAL TOLERANCE: C
 PER ANSI H35.2



RELEASED
 2013-07-02

C	COMPLETE REFORMAT, ADDED TRS10 & TRS11. ADDED AMS 4083, ASTM B210 & ASTM B241 ADDED MATERIAL TOLERANCE	AJS	13.06.12
B	ADD QQ-A-200/8 & QQ-A-225/8	CP	04.01.23
A	NEW ISSUE	DS	01.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED			
MFG. APPR.	M6061T6T		
APPROVED			
DE APPR			
DATE	13.06.12		

DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M6061T6T
 TITLE 6061-T6 TUBING
 SCALE NTS
 REV. C SHEET 1 OF 1

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 T1.00W035
 DATE: 18/07/17

PO / BATCH NO.: P0040406/5092706

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1"
 THICKNESS RECEIVED: 1"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	<u>AMS 4082</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>MT: F00263075 0001</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u>		SIGNED OFF BY: _____	
DATE: <u>18/07/17</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

KAISER ALUMINUM FABRICATED PRODUCTS

Handwritten signature

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49387366-1		CUSTOMER PART NUMBER: 42891		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 225794	LINE ITEM: 001	SHIP DATE: 04/25/2018	KAISER LOT NUMBER: F00267223	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 3127.000 LB	QUANTITY: 901.000 PCS	B/L NUMBER: 229377	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00267223	0001	0001	48.9	42.2	22.0	N/A	N/A	N/A
F00267223	0002	0001	47.2	41.0	21.5	N/A	N/A	N/A
F00267223	0003	0001	47.1	40.9	21.5	N/A	N/A	N/A
F00267223	0004	0001	48.1	40.8	22.0	N/A	N/A	N/A
F00267223	0005	0001	47.9	41.1	20.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D20789	.59	.25	.22	.05	.99	.05	.05	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.7500"; Wall: 0.1250"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00028095
Kaiser Order Number: 225794
Line Item: 001

Handwritten mark

KAISER

ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226



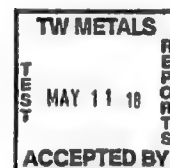
CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



C	COMPLETE REFORMAT. ADDED T6510 & T6511. ADDED AMS 4003, ASTM B210 & ASTM B241 ADDED MATERIAL TOLERANCE			AJS	13.06.12
B	ADD QQ-A-20078 & QQ-A-22506			OP	04.01.23
A	NEW ISSUE			DS	01.06.21
REV.	DESCRIPTION			BY	DATE
DESIGN	AJS		DART AEROSPACE LTD		
DRAWN	AJS		HAWKESBURY, ONTARIO, CANADA		
CHECKED	[Signature]		REV. C		
MFG. APPR.	[Signature]		SHEET 1 OF 1		
APPROVED	[Signature]		SCALE		
DATE	13.06.12		NTS		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 T0-750W. 125
 DATE: 1807/17

PO / BATCH NO.: P0040406/S092707

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
 THICKNESS RECEIVED: 0.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	AMS4082
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	MT: F00267223 0002
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DATE: <u>1807/17</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

KAISER ALUMINUM FABRICATED PRODUCTS

Best Price

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49386278-1		CUSTOMER PART NUMBER: 42558-144		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 225635	LINE ITEM: 001	SHIP DATE: 04/20/2018	KAISER LOT NUMBER: F00266049	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 256.000 LB	QUANTITY: 159.000 PCS	B/L NUMBER: 229334	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00266049	0001	0001	47.9	40.3	21.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D21417	.60	.27	.23	.05	1.01	.10	.06	.03	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.0650"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00028036
Kaiser Order Number: 225635
Line Item: 001

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

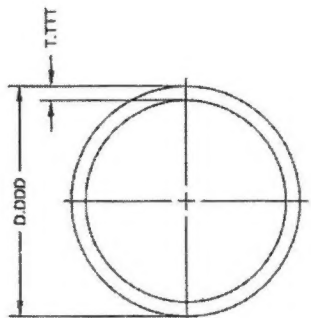
KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager

L. Kattentidt



PURCHASE MATERIAL: 6061-T6 76276510/76511 SEAMLESS TUBING
 SPECIFICATION: WW-T-700/8
 OR QQ-A-200/8 OR QQ-A-225/8
 OR AMS 4083 OR AMS 4082 OR AMS 4083
 OR ASTM B210 OR ASTM B241
 PART NUMBER: M6061T6T1D.DDD/WT.TTT
 OD | | WALL
 WHERE "D.DDD" = OD IN INCHES
 "T.TTT" = WALL THICKNESS
 EG. 3.8" OD X 0.058 WALL = M6061T6T0.375W0.058
 MATERIAL TOLERANCE: PER ANSI H35.2

RELEASED
 2013-07-02

C	COMPLETE REFORMAT, ADDED T6510 & T6511. ADDED AMS 4083, ASTM B210 & ASTM B241 ADDED MATERIAL TOLERANCE	AJS	13.06.12
B	ADD QQ-A-200/8 & QQ-A-225/8	CP	04.01.23
A	NEW ISSUE	DS	01.08.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	W		
MFG. APPR.	W		
APPROVED	W		
DE APPR.			
DATE	13.06.12		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	REV. C
M6061T6T	SHEET 1 OF 1
TITLE	SCALE
6061-T6 TUBING	NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 T0.625W.065
 DATE: 18/02/17

PO / BATCH NO.: P0040406/5042708

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625"
 THICKNESS RECEIVED: 0.625"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	AMS 4082
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	MT: F00266049 0001
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DATE: <u>18/02/17</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in